

FIG. 1 is a cross-sectional view of a mechanical assembly 10, showing a central shaft 120 passing through a housing 102. The shaft 120 is supported by bearings 112 and 114. A gear 118 is mounted on the shaft 120, and a pinion 116 is in mesh with the gear 118. A cam 113 is mounted on the shaft 120, and a follower 114 is in contact with the cam 113. A spring 112 is connected to the follower 114. A valve 108 is controlled by the cam 113. A seal 104 is located between the housing 102 and the shaft 120. A plug 106 is used to seal the housing 102. A nut 102 is used to secure the plug 106. A washer 104 is used between the nut 102 and the plug 106. A gasket 104 is used between the housing 102 and the plug 106. A bolt 102 is used to secure the plug 106. A screw 102 is used to secure the plug 106. A rivet 102 is used to secure the plug 106. A weld 102 is used to secure the plug 106. A glue 102 is used to secure the plug 106. A tape 102 is used to secure the plug 106. A string 102 is used to secure the plug 106. A wire 102 is used to secure the plug 106. A rope 102 is used to secure the plug 106. A chain 102 is used to secure the plug 106. A belt 102 is used to secure the plug 106. A band 102 is used to secure the plug 106. A strap 102 is used to secure the plug 106. A cord 102 is used to secure the plug 106. A cable 102 is used to secure the plug 106. A tube 102 is used to secure the plug 106. A pipe 102 is used to secure the plug 106. A hose 102 is used to secure the plug 106. A wire 102 is used to secure the plug 106. A rope 102 is used to secure the plug 106. A chain 102 is used to secure the plug 106. A belt 102 is used to secure the plug 106. A band 102 is used to secure the plug 106. A strap 102 is used to secure the plug 106. A cord 102 is used to secure the plug 106. A cable 102 is used to secure the plug 106. A tube 102 is used to secure the plug 106. A pipe 102 is used to secure the plug 106. A hose 102 is used to secure the plug 106.

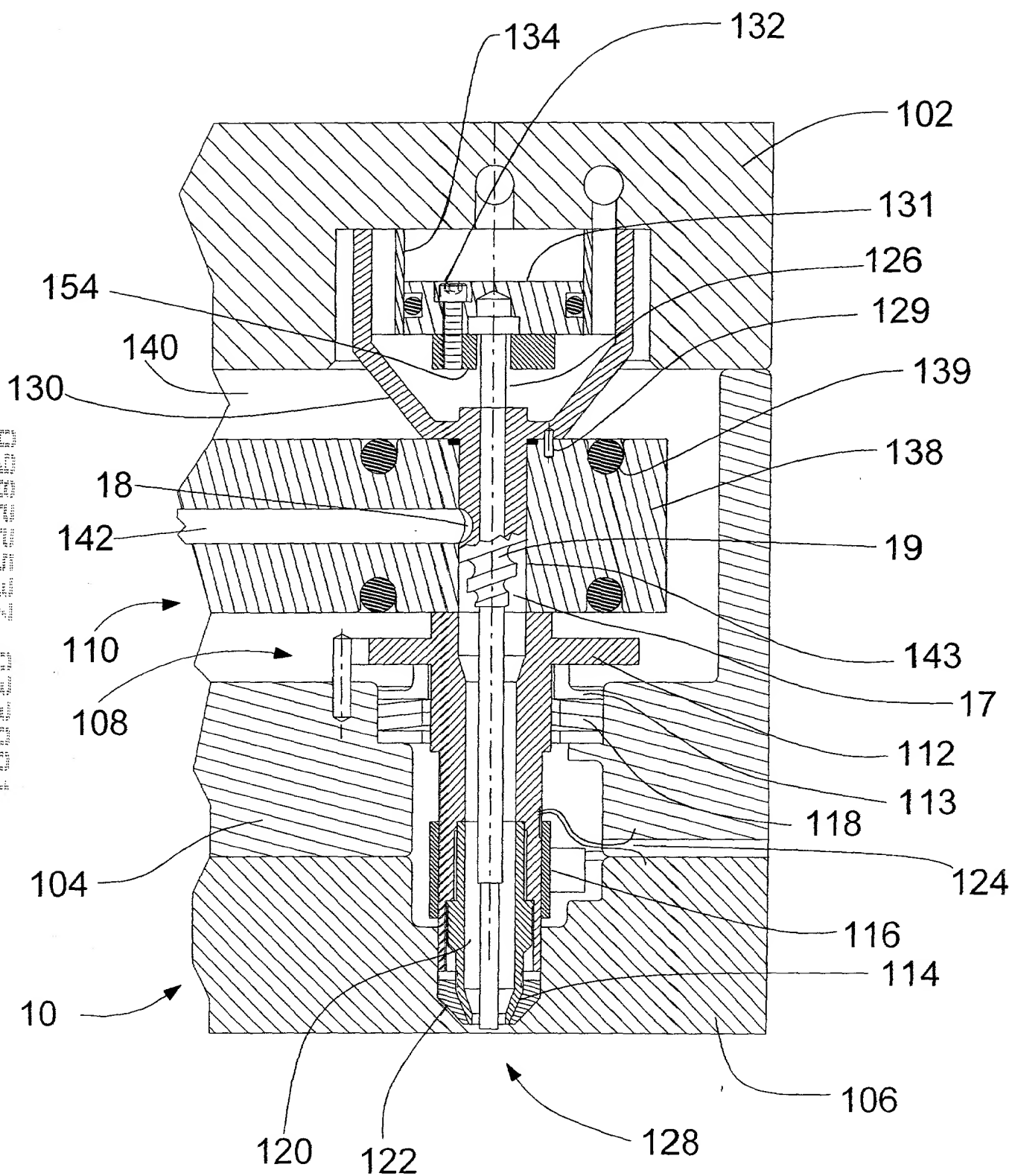


FIG. 1

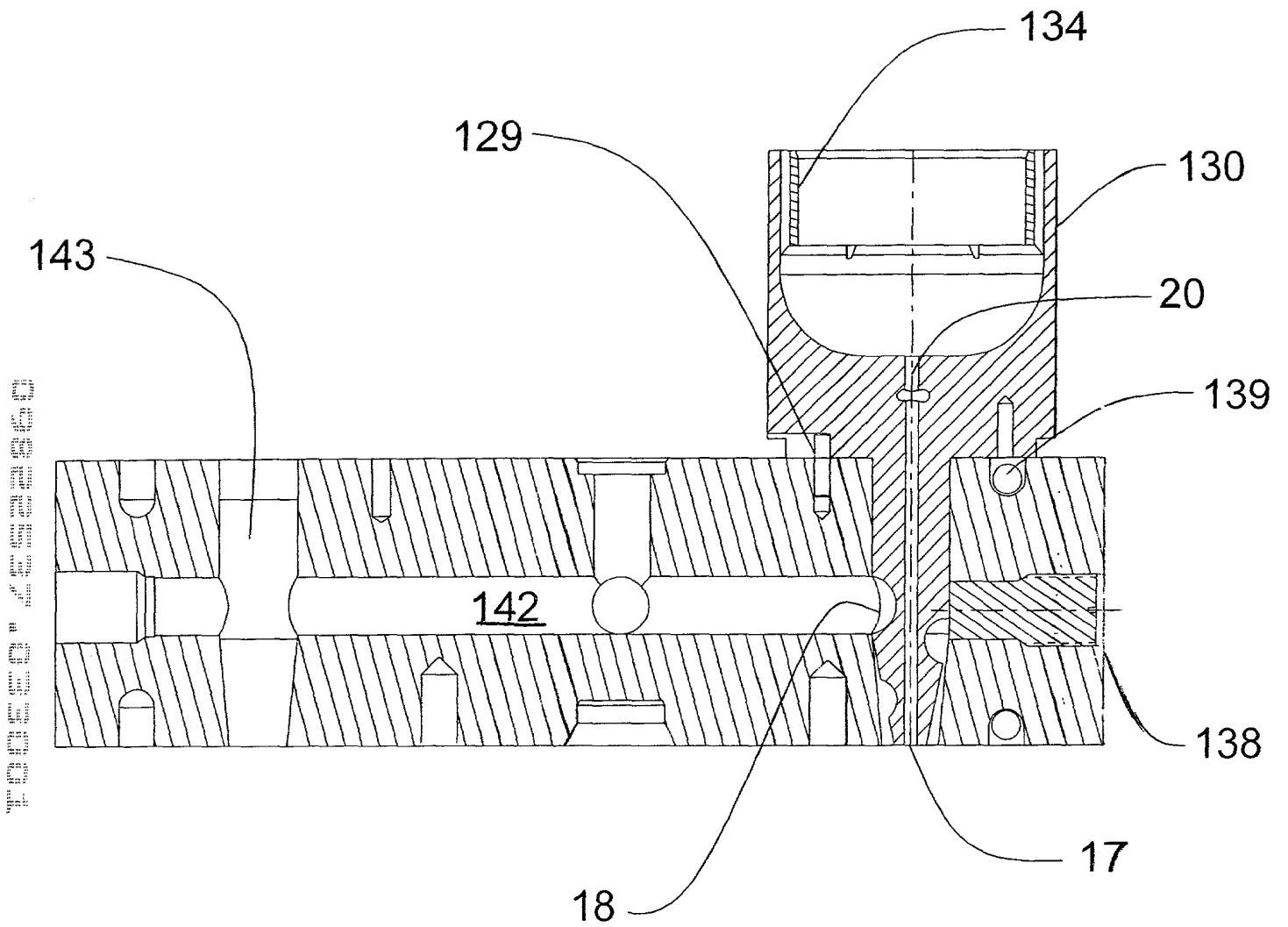


FIG. 2

FIG. 3 is a cross-sectional view of a mechanical assembly, showing a central shaft (128) passing through a housing (130a, 130b). The shaft is supported by bearings (149, 145, 150, 147, 152, 143) and is connected to a component (110) via a coupling (108). The housing is shown in cross-section, revealing internal features and the arrangement of the components.

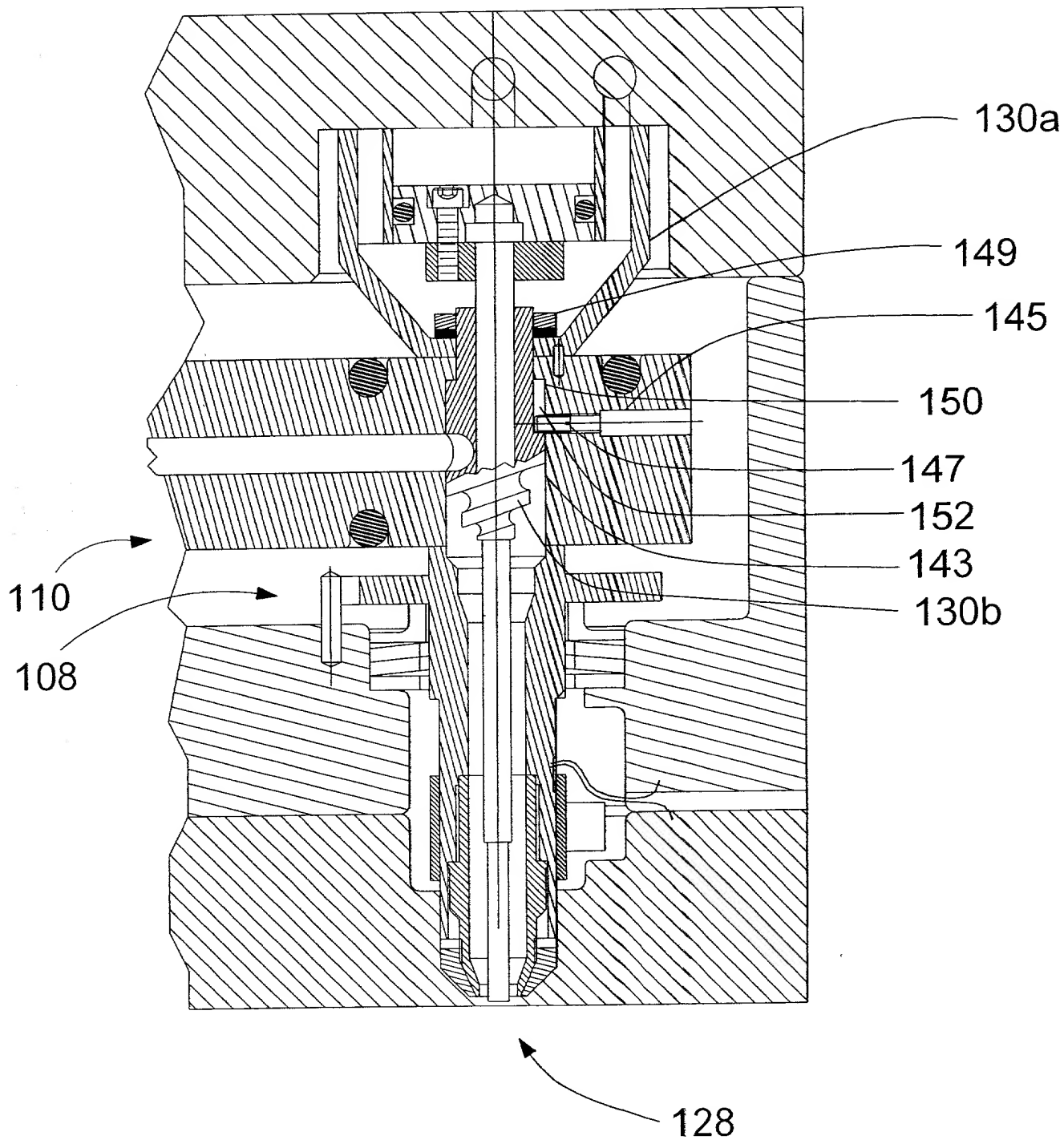


FIG. 3

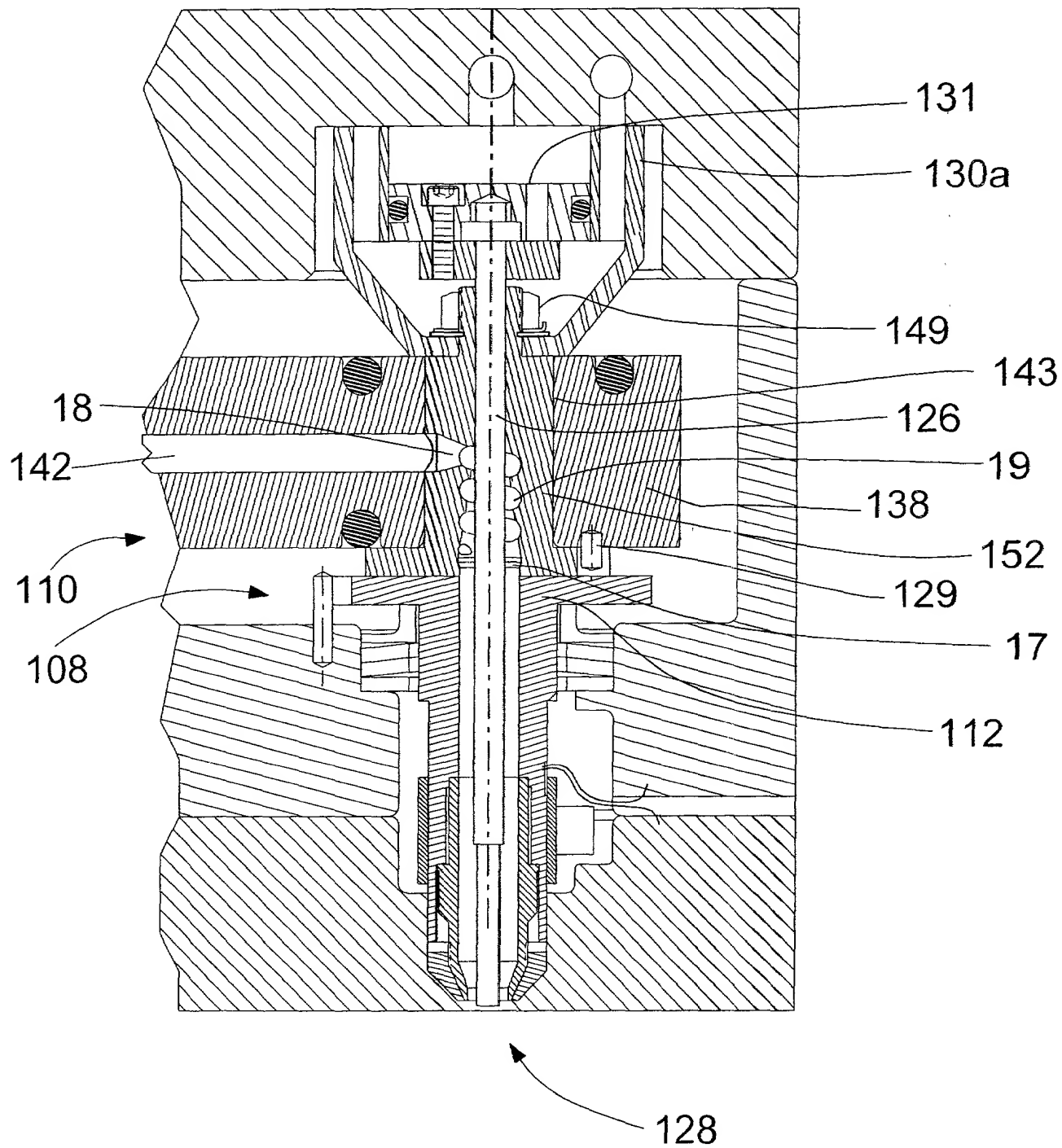


FIG. 4

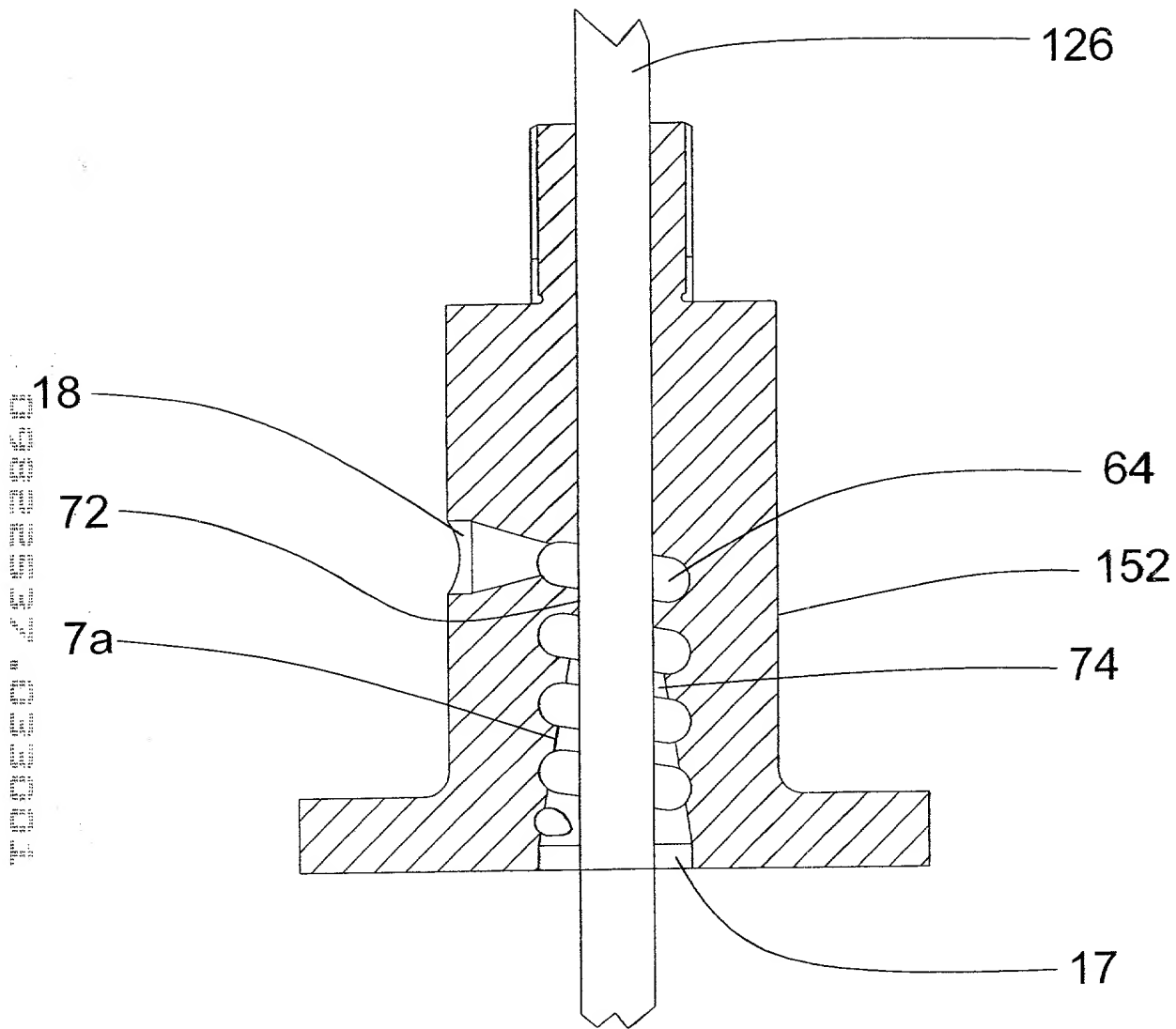


FIG 4a

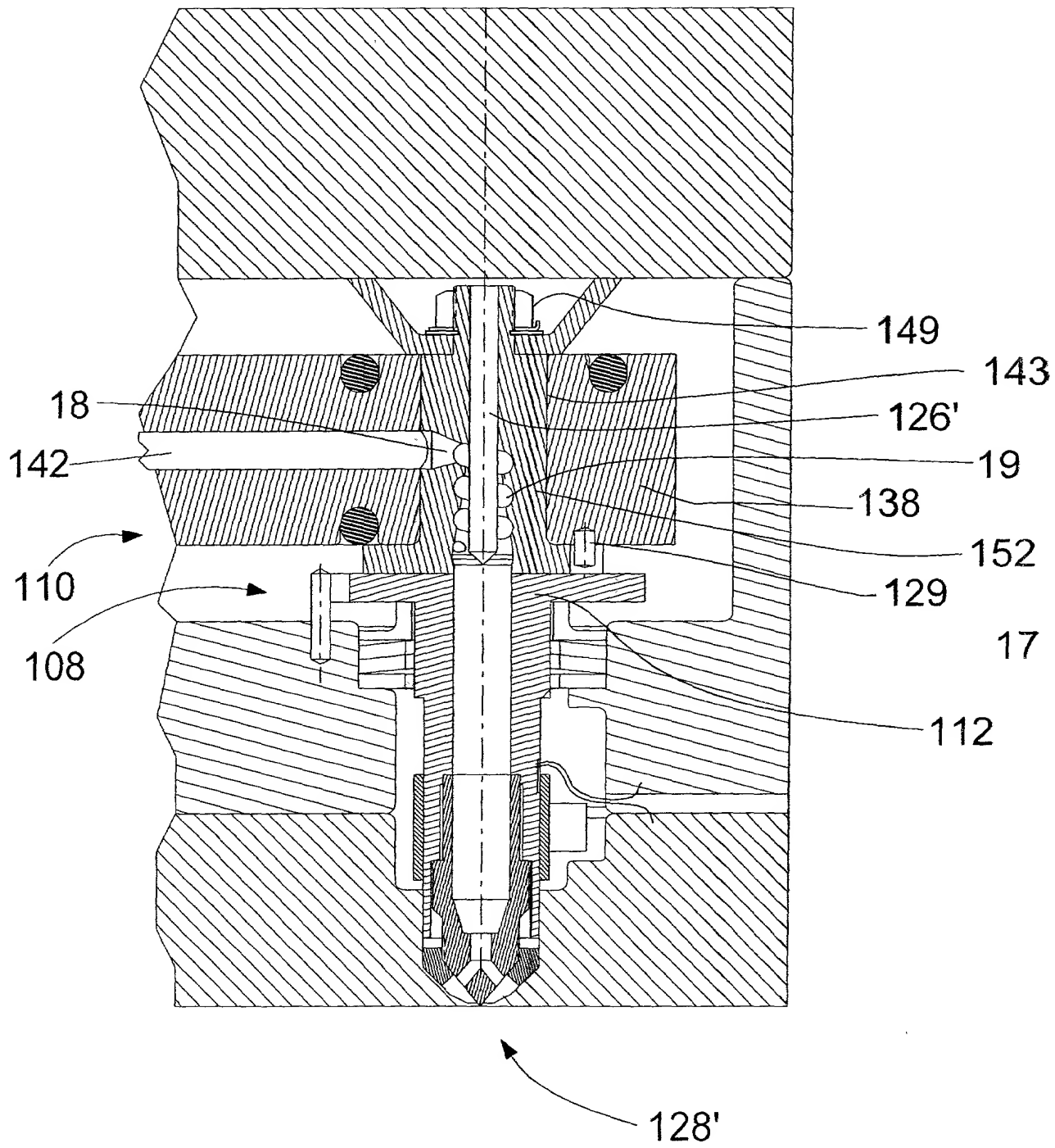


FIG. 4b

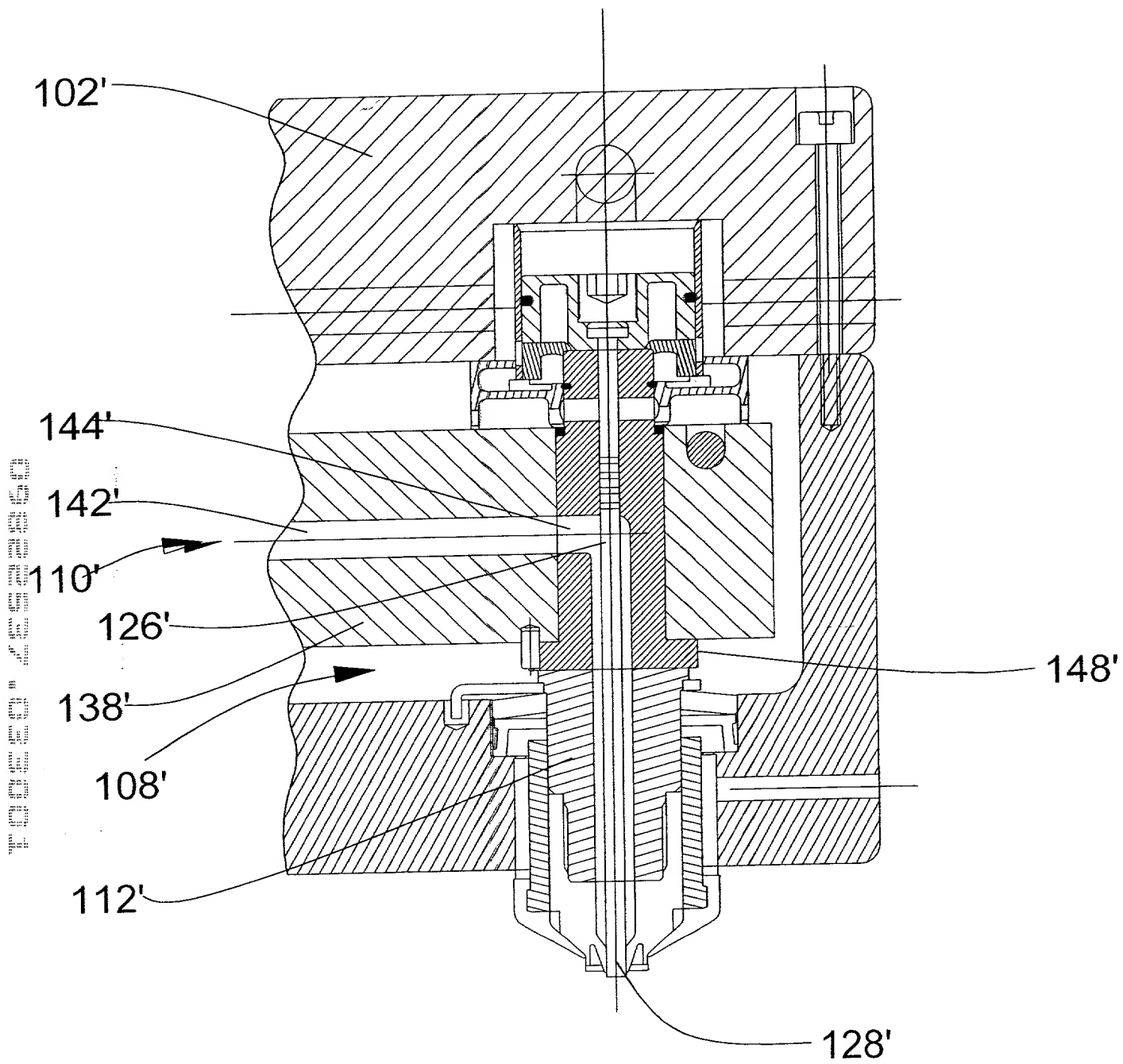


FIG. 5
(Prior Art)

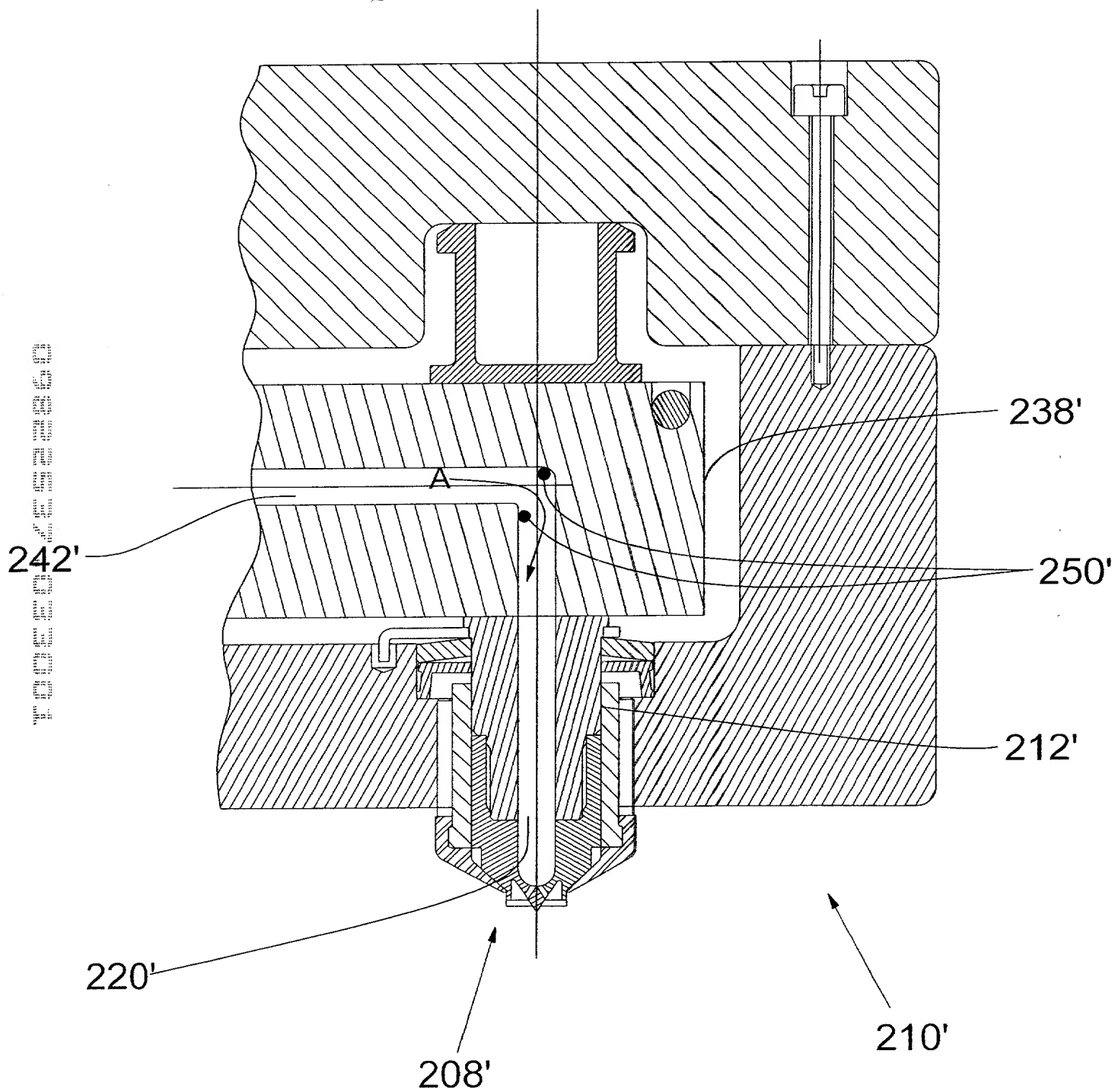


FIG. 6
(Prior Art)

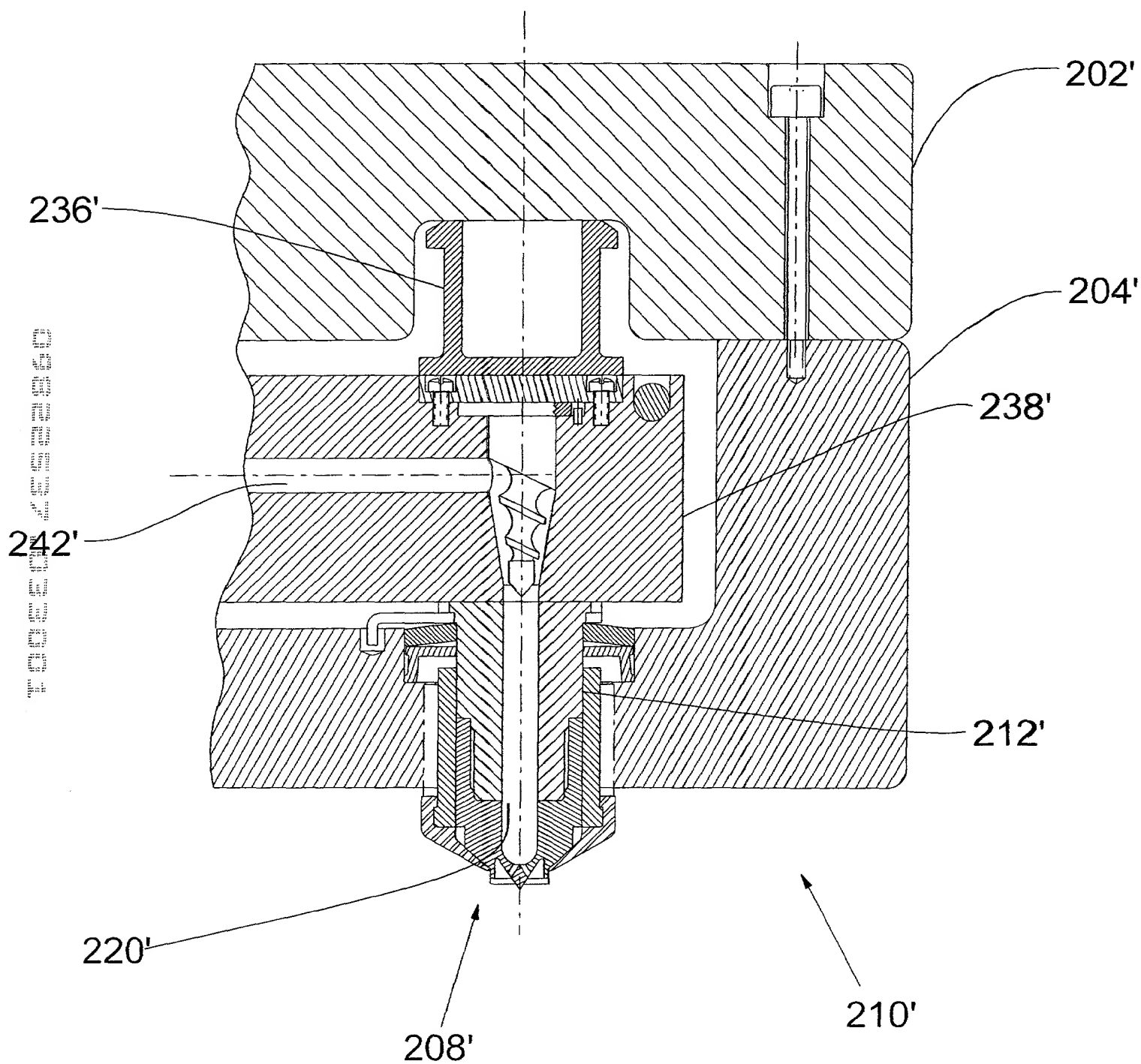


FIG. 7

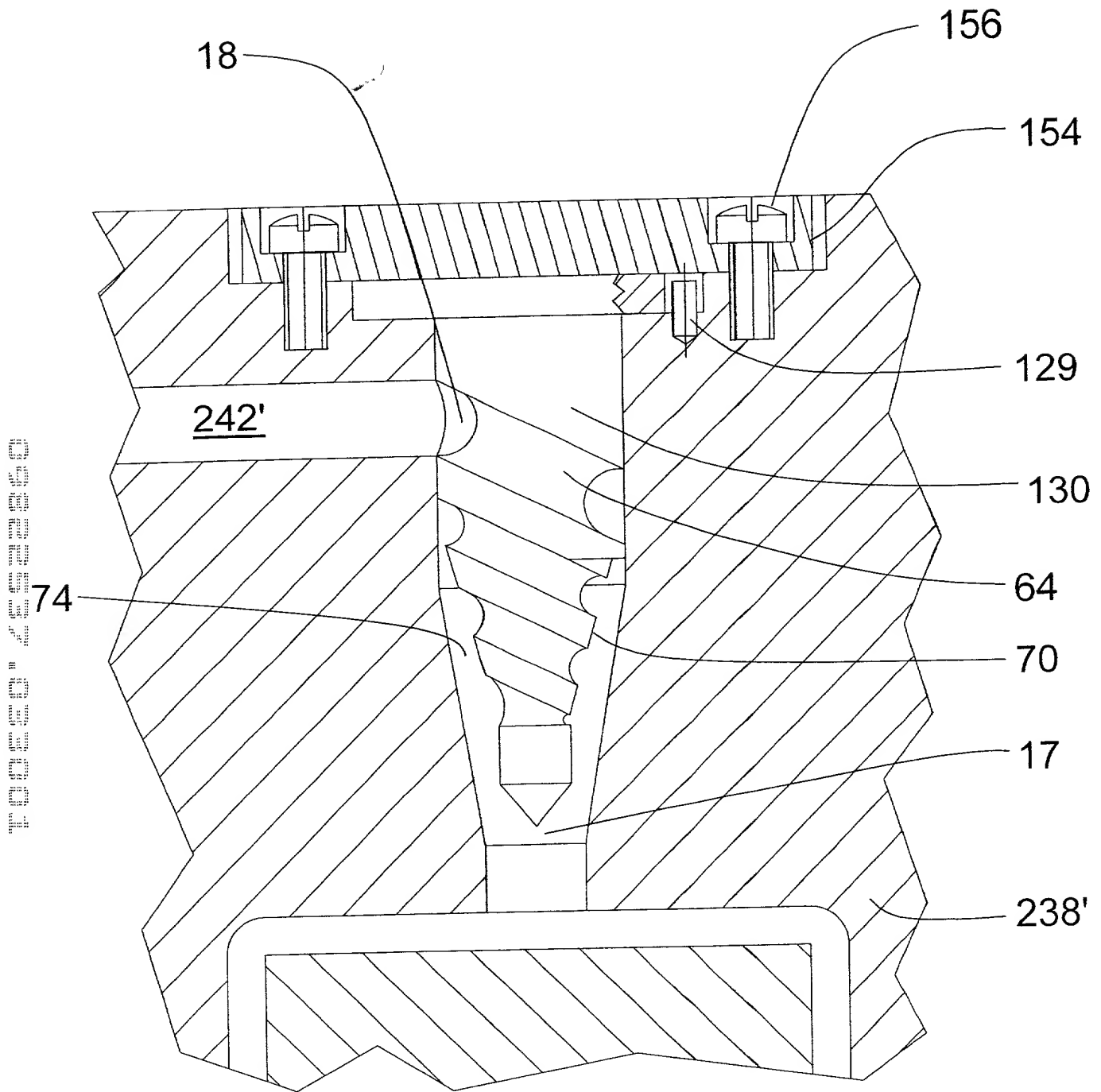


FIG. 8

FIG. 9 is a cross-sectional view of a device 10 in a closed position. The device 10 includes a housing 12 and a plunger 14. The plunger 14 is shown in a retracted position, exposing a chamber 16. The chamber 16 is defined by a top wall 18 and a bottom wall 20. The bottom wall 20 includes a series of protrusions 22. The plunger 14 includes a top flange 24 and a bottom flange 26. The top flange 24 is positioned above the chamber 16, and the bottom flange 26 is positioned below the chamber 16. The plunger 14 is biased upwards by a spring 28. The spring 28 is located between the top flange 24 and the top wall 18. The device 10 also includes a seal 30 located between the top wall 18 and the top flange 24. The seal 30 is configured to prevent leakage from the chamber 16. The device 10 is shown in a cross-sectional view, with the housing 12 and plunger 14 being the primary components. The chamber 16 is the central feature, and the plunger 14 is the movable part. The spring 28 and seal 30 are internal components that facilitate the operation of the device 10. The device 10 is shown in a closed position, with the plunger 14 retracted and the chamber 16 exposed. The device 10 is a cross-sectional view of a device 10 in a closed position. The device 10 includes a housing 12 and a plunger 14. The plunger 14 is shown in a retracted position, exposing a chamber 16. The chamber 16 is defined by a top wall 18 and a bottom wall 20. The bottom wall 20 includes a series of protrusions 22. The plunger 14 includes a top flange 24 and a bottom flange 26. The top flange 24 is positioned above the chamber 16, and the bottom flange 26 is positioned below the chamber 16. The plunger 14 is biased upwards by a spring 28. The spring 28 is located between the top flange 24 and the top wall 18. The device 10 also includes a seal 30 located between the top wall 18 and the top flange 24. The seal 30 is configured to prevent leakage from the chamber 16. The device 10 is shown in a cross-sectional view, with the housing 12 and plunger 14 being the primary components. The chamber 16 is the central feature, and the plunger 14 is the movable part. The spring 28 and seal 30 are internal components that facilitate the operation of the device 10. The device 10 is shown in a closed position, with the plunger 14 retracted and the chamber 16 exposed.

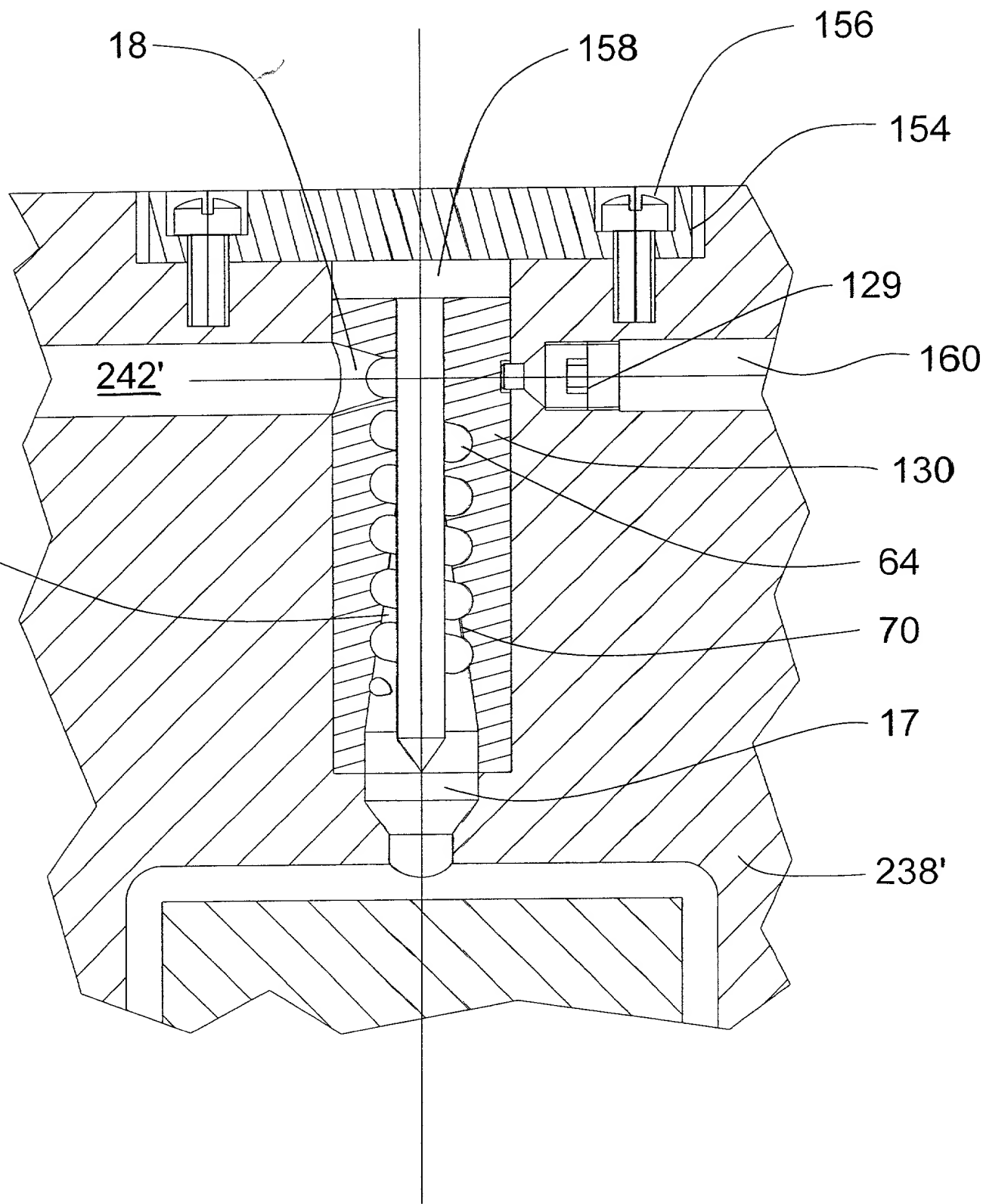


FIG. 9

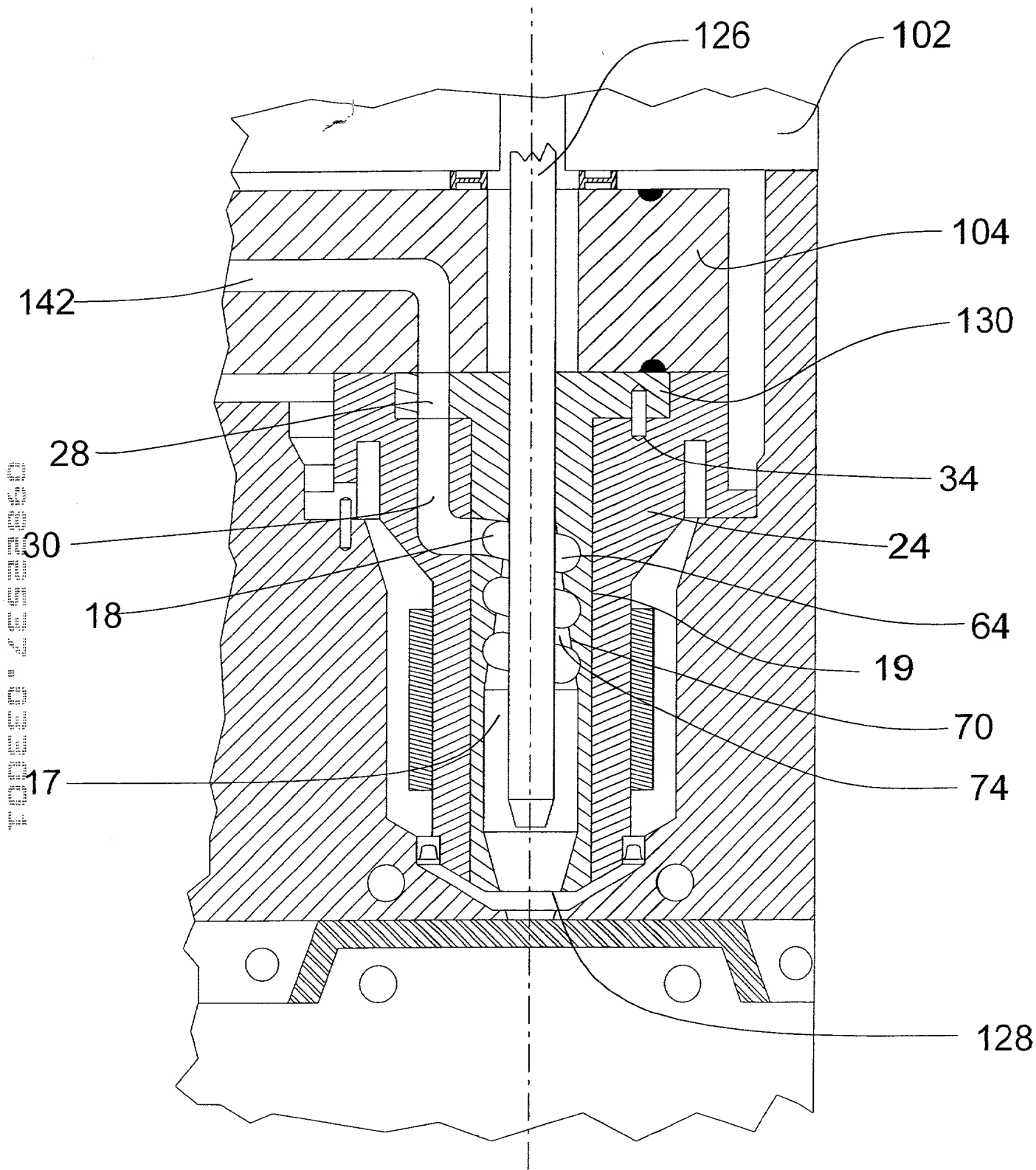


FIG 10